

Appl. No.: 10/659,475  
Response dated December 12, 2005  
Reply to Office Action of June 22, 2005

### **Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1. (Currently amended) A carotenoid composition comprising lycopene suspended or dispersed in a medium-chain triglyceride, ~~wherein the medium-chain triglyceride is derived from esterification of a substantially pure medium chain fatty acid and substantially pure glycerol~~ which maintains the concentration of lycopene for at least three months at 25°C.
2. (Cancelled).
3. (Previously presented) A composition according to claim 1, wherein the fatty acid is a C6 to C12 fatty acid.
4. (Previously presented) A composition according to claim 1, wherein the fatty acid is a C8 to C10 fatty acid.
5. (Previously presented) A composition according to claim 1, wherein the fatty acid is selected from the group consisting of caprylic acid, capric acid, lauric acid, and mixtures thereof.

Appl. No.: 10/659,475  
Response dated December 12, 2005  
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6. (Previously presented) A composition according to claim 1, comprising up to 10% by weight lycopene.
7. (Previously presented) A composition according to claim 6, comprising between 4% and 5% by weight lycopene.
8. (Previously presented) A composition according to claim 6, comprising up to 98% by weight medium chain triglyceride.
9. (Previously presented) A composition according to claim 8, comprising between 20% and 80% by weight medium chain triglyceride.
10. (Previously presented) A composition according to claim 9, comprising between 30% and 70% by weight medium chain triglyceride.
11. (Previously presented) A composition according to claim 8, further comprising an oil-soluble antioxidant.
12. (Previously presented) A composition according to claim 11, wherein the oil-soluble anti-oxidant is selected from the group consisting of tocopherols, butylated hydroxy anisole, butylated hydroxytoluene, propyl gallate, ethoxyquin and ascorbyl palmitate, natural tocopherols, and mixtures thereof.
13. (Previously presented) A composition according to claim 12, wherein the tocopherol is selected from the group consisting of beta, gamma-, and delta-

Appl. No.: 10/659,475  
Response dated December 12, 2005  
Reply to Office Action of June 22, 2005

tocopherols and mixtures thereof.

14. (Previously presented) A composition according to claim 11, wherein the anti-oxidant comprises up to 15% of the composition.

15. (Previously presented) A composition according to claim 14, wherein the anti-oxidant comprises between 5% and 10% by weight of the formulation.

16. (Currently amended) A method of providing a bioavailable antioxidant comprising orally administering to a host an effective amount of lycopene suspended or dispersed in a medium chain triglyceride, ~~wherein the medium chain triglyceride is derived from esterification of a substantially pure medium chain fatty acid and substantially pure glycerol~~ which maintains the concentration of lycopene for at least three months at 25°C.